INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/27779

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 15/00, 15/87; A01H 5/00 US CL : 800/278, 317.3; 536/23.1; 435/419. According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 800/278, 317.3; 536/23.1; 435/419.		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) West, STN		
C. DOCUMENTS CONSIDERED TO BE RELEVANT Correctly Circuity of document with indication, where appropriate, of the relevant passages Relevant to claim No.		
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Y JAIN, et. al. Metabolic engineering of an alternative	JAIN, et. al. Metabolic engineering of an alternative pathway for ascorbic acid biosynthesis	
in plants. Molecular Breeding 2000, Vol. 6, No. 1, pages 73-78.see Abstract and page 76. CONKLIN, et. al. Identification of ascorbic acid-deficient Arabidopsis thaliana mutants. Genetics 2000, Vol. 154, pages 847-856. See whole document.		1-23
Y SMIRNOFF, N. Abscorbic acid: metabolism and f	SMIRNOFF, N. Abscorbic acid: metabolism and functions of a multi-facetted molecule. Current Opinion Plant Biology (2000) Vol. 3, pages 229-235, especially page 233.	
Y SMIRNOFF, et. al. Biosynthesis of ascorbic acid in Plant Physiol. Plant Mol. Biol. 2001, Vol. 52; page	SMIRNOFF, et. al. Biosynthesis of ascorbic acid in plants: A renaissance. Annu. Rev. Plant Physiol. Plant Mol. Biol. 2001, Vol. 52; pages 437-67. See whole document.	
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Further documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
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"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family	
Date of the actual completion of the international search 13 December 2003 (13.12.2003)	Date of mailing of the international search report 0 3 MAY 2004	
Name and mailing address of the ISA/US	I	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Lower 13ell-Harris	
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